

ABBREVIATIONS

AC acoustical	GB grab bar	RM room
ACM acoustical mylar	GPBD gypsum board	RB rubber base
AFF above finished floor	HBD hardboard	SLR sealer
AGG aggregate	HDW hardware	SEC section
AL aluminum	HWD hardwood	SHT sheet
BLK block	HT height	SIM similar
BD board	HCW hollow core wood	SCW solid core wood
BRK brick	HM hollow metal	SB splash block
BRZ bronze	INCL include (d), (ing)	SPEC specification (s)
CPT carpet (ed)	INT interior	SS stainless steel
CK caulk (ing)	JT joint	ST stain
CLG ceiling	KIT kitchen	STL steel
CER ceramic	LAM laminate (d)	STN stone
CLR coloring	MTL material (s)	STUC stucco
CT ceramic tile	MES metal edge strip	SYM symmetry (ical)
C concrete	MET metal	SYN synthetic
CMU concrete masonry unit	MISC miscellaneous	TZ terrazzo
CONT continuous or continue	MR moisture resistant	THK thick (ness)
DS downspout	NIC not in contract	THR threshold
DTL detail	NTS not to scale	T&G tongue & groove
DNG drawing	O oil	TXP textured paint
DF drinking fountain	OC on center (s)	TYP typical
ELEC electric (al)	OPP opposite	UNF unfinished
EP epoxy paint	OH overhead	VIN vinyl
EQ equal	P paint (ed)	VCT vinyl composite tile
EWH electric water heater	PNL paneling	WVC vinyl wall covering
EXP exposed	PBD particle board	WSCW wainscot
EXT exterior	PVMT pavement	WRGB water-resistant gyp bd
FAC factory applied finish	PL plaster	W wax
FIN finish (ed)	PLAS plastic	WIN window
FLR floor (ing)	PLAM plastic laminate	WG wired glass
FBO furnished by others	PWD plywood	WD wood
GA gauge	QT quarry tile	
GALV galvanized	REF refrigerator	
GL glass, glazing		

BUILDING CODES

International Building Code (IBC), 2012 edition
 International Mechanical Code (IMC), 2012 edition
 International Plumbing Code (IPC), 2012 edition
 ADA Standards for Accessible Design, 2010 edition

CODE INFORMATION

OCCUPANCY CLASSIFICATION - IBC SECTION 304 - BUSINESS GROUP B (LESS THAN 50 OCCUPANTS)
 OCCUPANT LOAD - IBC TABLE 1004.1.2 BUSINESS, 100 SF GROSS PER OCCUPANT / ACCESSORY EQUIPMENT / STORAGE 300 SF GROSS PER OCCUPANT
 ALLOWABLE HEIGHT/AREA - IBC TABLE 503 - HEIGHT = 40', ALLOWABLE AREA BUSINESS = 9,000
 CONSTRUCTION TYPE - IBC TABLE 602.3 TYPE VB
 EXIT ACCESS TRAVEL DISTANCE - IBC TABLE 1016.1 - MAXIMUM TRAVEL DISTANCE FOR NON-SPRINKLED = 200'
 EGRESS WIDTH PER OCCUPANT SERVED - IBC TABLE 1005.3.2 = STAIRWAYS 0.3' / OTHER 0.2' PER OCCUPANT

BUILDING DATA

BUILDING ADDITION: 253 SF AT 300 SF PER OCCUPANT = 1 OCCUPANT
 EXISTING BUILDING FIRST FLOOR: 439 SF PER OCCUPANT AT 100 SF PER OCCUPANT = 5 OCCUPANTS
 EXISTING BUILDING SECOND FLOOR: 439 SF AT 300 SF PER OCCUPANT = 2 OCCUPANTS
 TOTAL BUILDING: 1,130.5 SF TOTAL WITH 8 OCCUPANTS TOTAL
 TOILET BUILDING HEIGHT: 20'-11"

DRAWING INDEX

COVER DRAWING	REV. NO.	REV. DATE
A0.1 CODES AND INFO	2	5/18/2018
ARCHITECTURAL		
A2.1 FLOOR PLAN	2	5/18/2018
A3.1 BUILDING ELEVATIONS	0	2/9/2018
A3.2 BUILDING SECTIONS	0	2/9/2018
A5.1 OPENINGS	0	2/9/2018
A8.2 WALL SECTIONS	0	2/9/2018
STRUCTURAL		
S2.1 FOUNDATION PLAN	0	2/26/2018
S2.2 ROOF FRAMING PLAN	0	2/26/2018
PLUMBING		
P1.0 PLUMBING FLOOR PLAN	0	2/14/2018
P2.0 PLUMBING SCHEDULES	0	2/14/2018
MECHANICAL		
M1.0 MECHANICAL FLOOR PLAN	0	2/14/2018
ELECTRICAL		
E1.1 ELECTRICAL SITE PLAN, SITE DETAILS	0	2/9/2018
E2.1 FLOOR PLANS, LEGEND, NOTES, DETAILS, SCHEDULES	0	2/9/2018
E3.1 RISER DIAGRAM, SPECIFICATIONS, ENERGY CODE COMPLIANCE	0	2/9/2018

GRAPHIC SYMBOLS

AREA NUMBER
 DOOR NUMBER
 WINDOW NUMBER
 ROOM AND SPACE NUMBER
 TOILET ACCESSORIES
 EQUIPMENT
 REVISIONS
 WALL TYPE
 REFERENCE GRID
 SECTION NUMBER
 SECTION REFERENCE
 SHEET NUMBER WHERE DRAWN
 DETAIL NUMBER
 DETAIL REFERENCE
 SHEET NUMBER WHERE DRAWN
 ELEVATION NUMBER
 INTERIOR ELEVATION INDICATOR
 SHEET NUMBER WHERE DRAWN
 DETAIL NUMBERS
 WALL TYPES
 SHEET NUMBER WHERE DRAWN

EARTH	ROUGH WOOD	BATT OR BLOWN-IN INSULATION
STONE FILL	FINISH WOOD	RIGID INSULATION
CONCRETE	PLYWOOD	GYPSUM BOARD
CONCRETE BLOCK	STEEL (LARGE SCALE)	ACOUSTICAL TILE
BRICK	STEEL (SMALL SCALE)	MARBLE

APPROVAL STAMPS

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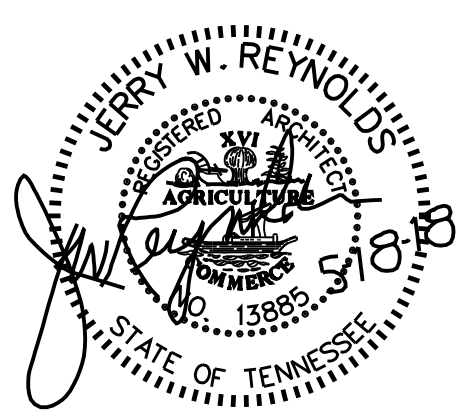
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RESERVED FOR SEAL

RESERVED FOR CONSULTANT LOGO

LOCAL PARK AND RECREATION FUND
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
 GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

5/18/18 JR REVIEW COMMENTS

NO. DATE BY REVISION

DRAWN BY JERRY W. REYNOLDS

DESIGNED BY JERRY W. REYNOLDS

APPROVED BY

JOB NO. 517A556

DATE 2/9/2018

SCALE NOT TO SCALE

CODES AND INFO

DRAWING NUMBER

A0.1

CADD FILE NO.

GENERAL MECHANICAL SPECIFICATIONS

FURNISH, INSTALL, PROVIDE AND MAKE OPERATIVE ALL EQUIPMENT, MATERIALS, SUPERVISION, LABOR AND ANY AND ALL ITEMS NECESSARY FOR THE PROPER INSTALLATION OF A CORRECTLY FUNCTIONING MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EQUALS SHALL BE ACCEPTED FOR EQUIPMENT UNLESS OTHERWISE NOTED.

ORDINANCES, PERMITS AND CODES: THE WORKMANSHIP AND MATERIALS COVERED BY THESE SPECIFICATIONS SHALL CONFORM TO ALL REGULATIONS OF ALL THE AUTHORITIES HAVING JURISDICTION.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND INSPECTION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM.

THE LOCATION OF DUCTS, PIPE AND EQUIPMENT, AS SHOWN ON THE DRAWINGS, IS DIAGRAMMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN WORKING LAYOUT TO ELIMINATE ALL STRUCTURAL AND ARCHITECTURAL CONFLICTS IN THE BUILDING.

VERIFY ALL MEASUREMENTS AT THE SITE AND COORDINATE ALL WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF THE OTHER TRADES.

INSULATION: ALL INSULATION, INCLUDING JACKET, OR FACING AND ADHESIVE USED TO ADHERE FACING OR JACKET TO THE INSULATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING TESTED BY THE PROCEDURE RECOMMENDED BY ASTM E-84, NFPA 225 OR U.L. 723, NOT EXCEEDING: FLAME SPREAD 25, SMOKE DEVELOPED 50. ALL INSULATION ACCESSORIES SHALL ALSO HAVE THE RATING LISTED ABOVE.

SUPPLY AIR DUCT SHALL BE INSULATED EXTERNALLY WITH 2 INCH THICK, R-5, 0.75 PSF DENSITY FIBERGLASS INSULATION INCLUDING A VAPOR BARRIER.

EXHAUST DUCT IS NOT REQUIRED TO BE INSULATED.

ALL DUCTWORK SHALL BE CONSTRUCTED OF THE BEST BLOOM GALVANIZED SHEETS, FREE FROM BLISTER AND IMPERFECTIONS, AND WITH GAUGES, JOINTS, BRACING AND SUPPORTS IN STRICT ACCORDANCE WITH SMACNA STANDARDS. DUCT SIZES SHOWN ON THE DRAWINGS ARE NET INSIDE CLEAR. SCREWS SHALL BE CADMIUM PLATED. ROUND DUCT RUN-OUTS SHALL BE MIN. 26 GA. SHEET METAL. HANGERS SHALL BE 1" x 1/8" GALV. BAND 4' ON CENTER.

FLEXIBLE DUCT SHALL NOT BE USED ON THIS PROJECT. ALL DUCTS AND FITTINGS SHALL BE RIGID SHEET METAL AS DESCRIBED ABOVE.

PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS ON THE DISCHARGE AND ENTERING SIDES OF ALL VIBRATING EQUIPMENT TO WHICH DUCTWORK IS ATTACHED.

DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

ALL PIPING, DUCTS, VENTS, ETC EXTENDING THRU THE WALL SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. NO PIPING, DUCTS OR VENTS SHALL PENETRATE THE ROOF OF THIS STRUCTURE.

ALL VALVES AND PIPING SPECIALTIES SHALL BE LINE SIZED UNLESS NOTED OTHERWISE - USE ECCENTRIC REDUCERS ON CONTROL VALVES WHERE REQUIRED.

INSTALL MANUAL VOLUME DAMPERS AT EACH BRANCH RUN-OUT.

ALL UNITS SHALL BE BALANCED TO WITHIN 5% OF THE DESIGN AIR QUANTITY. BALANCE DIFFUSERS AND REGISTERS TO QUANTITIES SHOWN ON DRAWINGS.

HVAC CONTRACTOR SHALL LEAVE HIS WORK IN PERFECT WORKING CONDITION AND SHALL GUARANTEE SAME FOR A PERIOD OF TWELVE (12) MONTHS FROM DATE OF FINAL ACCEPTANCE.

IT IS THE INTENT OF THESE DRAWINGS TO COVER ALL WORK FOR A COMPLETE FIRST CLASS MECHANICAL INSTALLATION - ANY EQUIPMENT, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE CONSTRUCTION MANAGER) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR AS PART OF HIS TOTAL WORK.

ELECTRIC HEATER SCHEDULE

IDENTIFICATION	EH-1
MANUFACTURER	INDEECO
SERIES	QUA
HEAT CAPACITY (kW)	12
SIZE (IN)	12" x 8"
VOLTAGE / PHASE	240/1Ø
ACCESSORIES REQUIRED:	A, B, C, D, E, F
NOTES:	
A:	UNITS SHALL BE U.L. LISTED
B:	THERMAL OVERLOAD PROTECTION
C:	OPEN COIL HEATING ELEMENT
D:	24 VOLT TRANSFORMER
E:	FAN INTERLOCK
F:	AIRFLOW SWITCH

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	NEW SUPPLY AIR DUCTWORK
	NEW EXHAUST DUCTWORK
	MANUAL VOLUME DAMPER
	SUPPLY FAN
	EXHAUST FAN
	AIR DISTRIBUTION IDENTIFICATION (REFER TO AIR DISTRIBUTION SCHEDULE)
	EQUIPMENT LABEL (SEE MECH. EQUIP. SCHEDULE FOR INFO.)
	WALL MOUNTED THERMOSTAT (52" A.F.F.)
	DUCT MOUNTED TEMPERATURE SENSOR
	DIRECTION OF AIR FLOW

FAN SCHEDULE

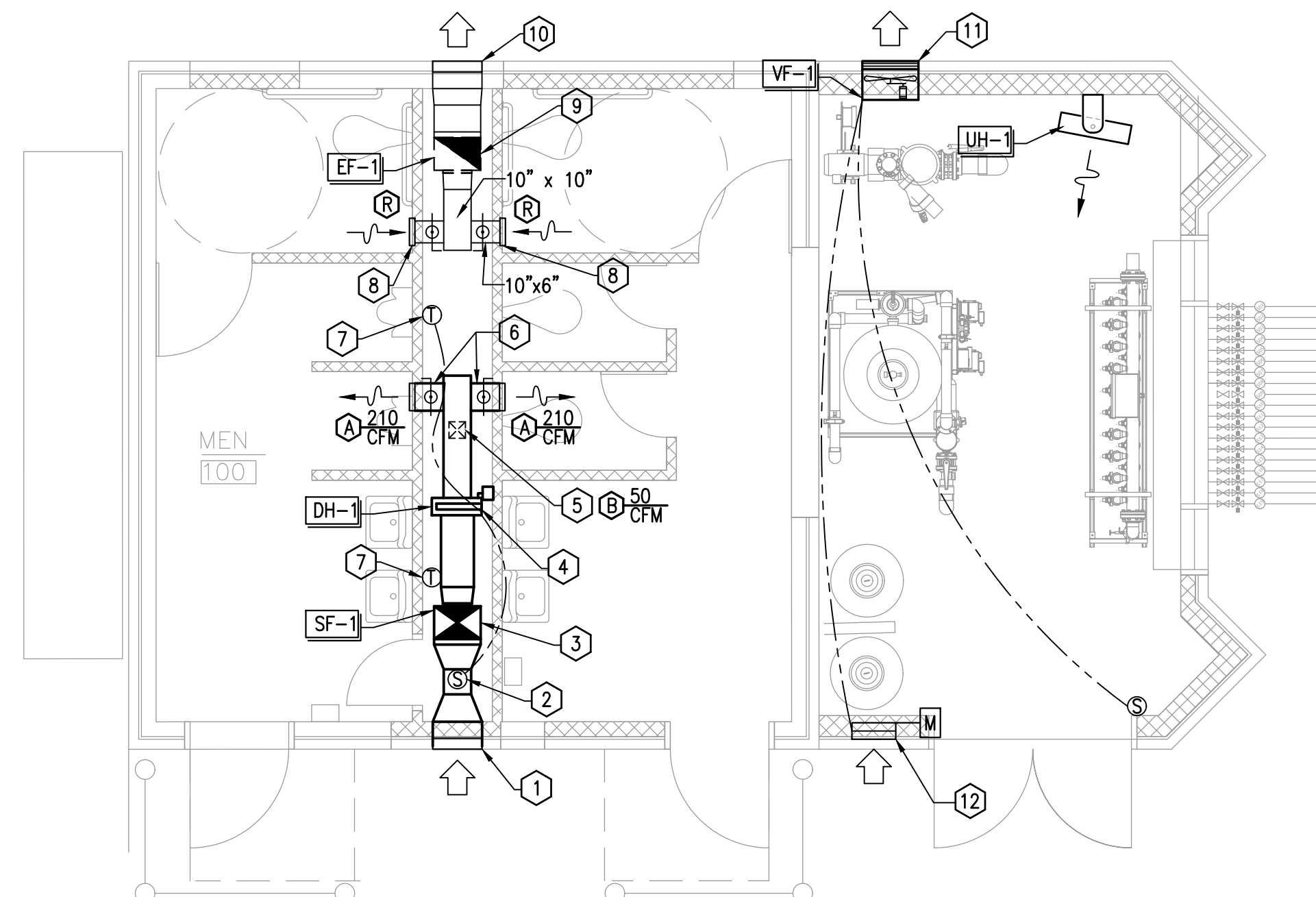
FAN IDENTIFICATION	EF-1	SF-1	VF-1
MANUFACTURER	COOK	COOK	COOK
MODEL NUMBER	GN-622	GN-720	12S15D
SERVICE TYPE	TOILET EXHAUST	MAKE-UP AIR SUPPLY	VENTILATION
FAN TYPE	IN-LINE	IN-LINE	WALL-PROP
CFM	420	470	600
ESP	0.35	0.50	0.15
SONES	3.0	3.0	3.0
MOTOR HP	137 WATTS	175 WATTS	1/8 HP
VOLTAGE/PHASE	120/1Ø	120/1Ø	120/1Ø
WEIGHT	32 LBS.	36 LBS.	36 LBS.
ACCESSORIES REQUIRED	A, B	B, C	B, D
ACCESSORIES:	A: BACKDRAFT DAMPER C: WALL MTD THERMOSTAT B: SUPPORT FROM STRUCTURE D: WALL MTD SWITCH		
REMARKS:	EF-1 TO BE CONTROLLED BY OCCUPANCY SENSORS IN RESTROOMS. SF-1 TO BE ENERGIZED WHEN EF-1 IS ENERGIZED. SF-1 SHALL OPERATE INDEPENDENT OF EF-1 IF THERMOSTAT CALLS FOR HEAT		

AIR DISTRIBUTION SCHEDULE

SYMBOL	MFGR. & MODEL #	DEVICE	FACE	SIZE	VOLUME CONTROL	COLLAR SIZE	REMARKS
	PRICE MOD. 910	SUPPLY GRILLE	LOUVERED	10" x 6"	-	-	SEE NOTES
	PRICE MOD. 91	SUPPLY GRILLE	LOUVERED	6" x 6"	-	-	SEE NOTES
	PRICE MOD. 91FH	RETURN GRILLE	LOUVERED	10" x 6"	-	-	SEE NOTES
NOTES: 1. AIR DEVICE COLORS TO BE SPECIFIED BY ARCHITECT 2. PROVIDE SURFACE MTD. TYPE BORDER FOR GYPBOARD WALLS. 3. ALL AIR DEVICES TO BE HEAVY-DUTY STEEL CONSTRUCTION.							

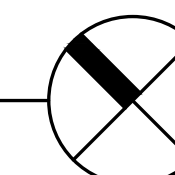
MECHANICAL DRAWING NOTES

- FURNISH AND INSTALL RUSKIN ELF375DXH 18"x18" FRESH AIR INTAKE LOUWER AS HIGH AS POSSIBLE WITHIN BRICK WALL AT BUILDING EXTERIOR.
- DUCT MOUNTED AIR TEMPERATURE SENSOR IN FRESH AIRSTREAM TO ACTIVATE ELECTRIC DUCT HEATER WHEN OUTDOOR AIR IS BELOW 55F
- SUPPLY FAN AND ASSOCIATED DUCTWORK INSTALLED WITHIN PLUMBING CHASE/CLOSET.
- ELECTRIC DUCT HEATER (SLIDE-IN TYPE) LOCATED TO PROVIDE MFR RECOMMENDED DUCT LENGTHS BEFORE AND AFTER HEATER
- SUPPLY AIR GRILLE MOUNTED ON BOTTOM OF DUCT WITH INTEGRAL DAMPER. BALANCE TO AIRFLOW QUANTITY INDICATED.
- EXTEND 10"x6" BRANCH SUPPLY DUCT TO CONNECT TO 10"x6" SUPPLY GRILLE. BALANCE TO AIRFLOW INDICATED.
- WALL MOUNTED THERMOSTAT LOCATED WITHIN PLUMBING CHASE/CLOSET TO ACTIVATE SUPPLY FAN AND HEATER WHEN SPACE TEMPERATURE IS BELOW 50F. THERMOSTAT CONTROL SHALL OVERRIDE OCCUPANCY SENSOR CONTROL OF EXHAUST FAN/SUPPLY FAN.
- HEAVY DUTY STEEL EXHAUST GRILLE FLUSH WITH WALL SURFACE. EXHAUST DUCT PENETRATES CHASE WALL BELOW BOND BEAM (FIELD COORDINATE WITH STRUCTURE)
- EXHAUST FAN AND ASSOCIATED DUCTWORK INSTALLED WITHIN PLUMBING CHASE/CLOSET.
- FURNISH AND INSTALL RUSKIN ELF375DXH 18"x18" EXHAUST AIR LOUWER AS HIGH AS POSSIBLE WITHIN BRICK WALL AT BUILDING EXTERIOR.
- RUSKIN L330 18" x 18" STEEL, STATIONARY EXHAUST LOUWER INSTALLED AT FAN OUTLET IN EXTERIOR WALL.
- RUSKIN ELM6375DX 24" x 18" ALUMINUM INTAKE LOUWER WITH MIN. 0.85 F² FREE AREA, BIRDSCREEN, WALL SLEEVE, AND MOTORIZED ACTUATOR TO INTERLOCK WITH VENTILATION FAN "VF-1".



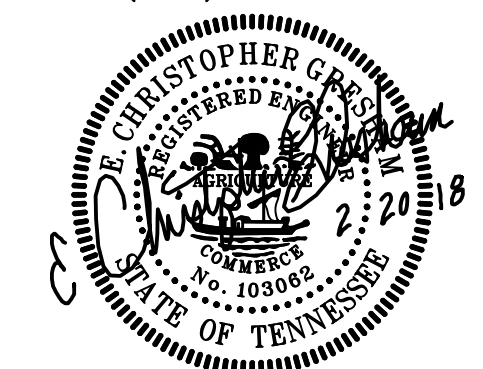
MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



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RESTROOM EQUIPMENT BUILDING
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GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

REVISION 1 02.20.18

NO. DATE BY REVISION

DRAWN BY MWD / SCT

DESIGNED BY ECG

APPROVED BY ECG

ARCH JOB NO. 517A556

DATE 01/30/2018

SCALE NOTED

MECHANICAL FLOOR PLAN

DRAWING NUMBER

M1.0

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